

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number  
**WO 2005/047700 A1**

(51) International Patent Classification<sup>7</sup>:

**F04B 49/00**

(21) International Application Number:

PCT/KR2003/002296

(22) International Filing Date: 29 October 2003 (29.10.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(71) Applicant (*for all designated States except US*): LG ELECTRONICS INC. [KR/KR]; 20, Yoido-Dong, Youngdungpo-Gu, Seoul 150-010 (KR).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): KIM, Do-Hyung [KR/KR]; Buyeong Apt. 902-1406, 156-1, Jangyu-Myeon, Gimhae, Gyeongsangnam-Do 621-830 (KR). KIM, Young-Kwon [KR/KR]; Seongwon Apt. 203-413, 45-1, Sangnam-Dong, Changwon, Gyeongsangnam-do 641-779 (KR).

(74) Agent: PARK, Jang-Won; Jewoo Bldg. 5th Floor, 200, Nonhyun-Dong, Gangnam-Gu, Seoul 135-010 (KR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

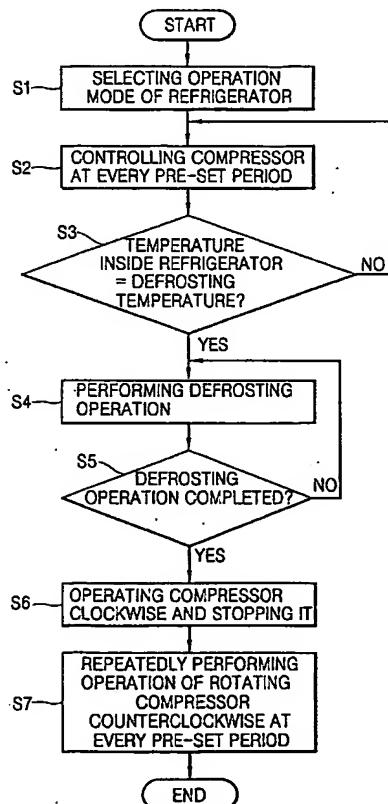
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: METHOD OF CONTROLLING COMPRESSOR FOR REFRIGERATOR AND APPARATUS THEREOF



(57) Abstract: A method of controlling compressor for refrigerator and apparatus thereof are disclosed to control an operation of the compressor by optimum efficiency by changing freezing capacity of the compressor. The apparatus controls a rotation direction of the compressor installed in the refrigerator and changes the freezing capacity of the compressor in accordance with the rotation direction of the compressor, thereby effectively controlling the operation of the compressor.

WO 2005/047700 A1



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*